PUP40A-2WMC-850

Product Features

- Dual-channel output, output current adjustable via DIP switch
- Supports 0-10V, potentiometer, and PWM dimming
- Flicker-free smooth dimming, color temperature range: 2700K-6500K
- Protections: Overload, over-voltage, and short-circuit protection
- UL Class P & Class 2 output
- Complies with UL 8750 & UL 1310 safety standards
- Suitable for Dry , Damp Locations
- Designed for indoor LED lighting applications

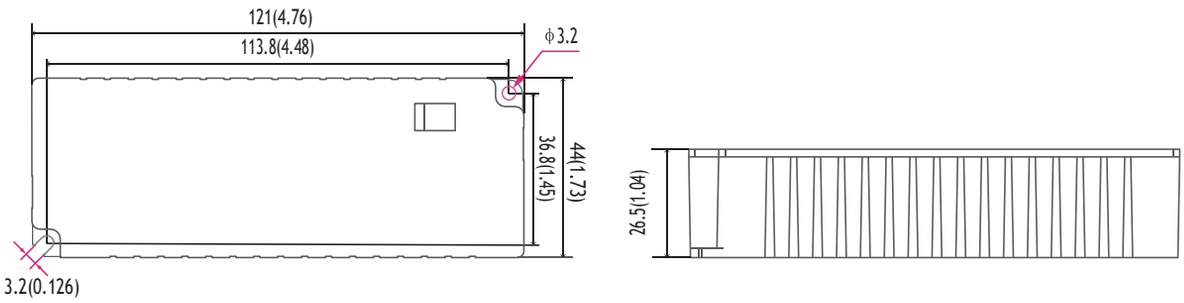
Application

Down Light

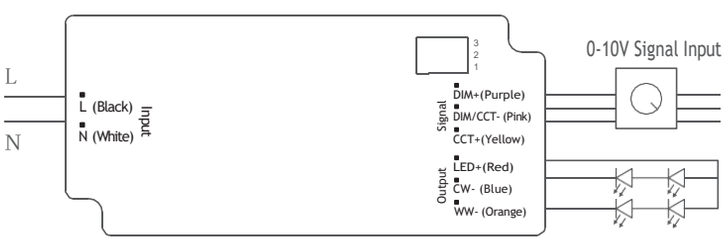
Technical Paramaters

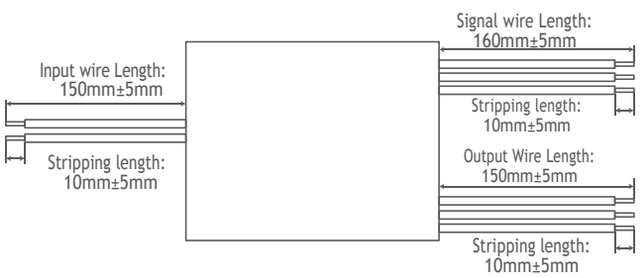
Model	PUP40A-2WMC-850	
Input	Efficiency	>87%@120VAC, 277VAC Full load
	Frequency	50-60Hz
	Voltage	120VAC-277VAC
	Current	0.40Amax@120VAC, 0.22A@230AC, 0.19A@277VAC
	Power Factor	0.98@120VAC, 0.95@230VAC, 0.9@277VAC, Full load
	THD(full load)	10%@120VAC, 15%@277VAC, Full load
	Inrush Current	Cold start, 8@120VAC 50us, 20A@277VAC 40us
	No load power	<1.0W
	Standby Power	<1.0W
Output	Current/Voltage/Power	500mA/9-48V/24W 550mA/9-48V/26.4W 600mA/9-48V/28.8W 650mA/9-48V/31.2W 700mA/9-48V/33.6W 750mA/9-48V/36W 800mA/9-48V/38.4W 850mA/9-47V/40W
	Channel	2
	No load output voltage	59V Max
	Current Accuracy	±5%
	Current ripple	<5%
Protection	Short circuit	Shut down output, Auto-recovery after Fault Clearance
	Overvoltage	Hiccup Protection,, Auto-recovery after Fault Clearance
	Overload	Hiccup Protection,, Auto-recovery after Fault Clearance
Safety & EMC	Surge	L-N:1KV
	Withstand Voltage	I/P-O/P: 2000Vac/1min/<5mA, I/P-PG:1500Vac/1min/<5mA, O/P-PG: 500Vac/1min/<5mA, O/P-DIM(Signal port):1500Vac/1min/<5mA
	Safety standards	UL8750, Class P
	EMI Eission	EN55015,EN61000-3-2 Class C,IEC61000-3-3
	EMC Immunity	FCC class B(120V)/class A(277V)
Function	Dimming type	0/1-10V ,Potentiometer,PWM
	Dimming range	0.1%-100%
	Color temperature range	2700k-6500k
	Dimming curve	Linearity
	Flicker	Flicker free
Others	Working temp.	(-20~+50) ℃ [-4°F~122°F]
	Relative humidity	20~90% RH
	tc	80℃ [176°F]
	Lifetime	50,000h@tc:80℃[176°F]
	Warranty Condition	5 years
	Switch cycle	>25,000 times
	IP rating	IP20
	Material	PC
	Dimension	121*44*26.5mm(L*W*H)
	Pack Information	Net weight: 230g±5%/PCS; 50PCS/Carton; 12kg±5%/Carton; Carton Size: 286*239*194mm (L*W*H)

Dimension mm (Inch)

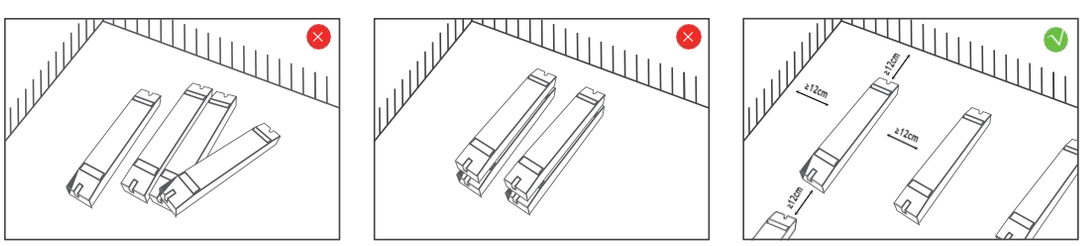


Wiring





Installation Precautions



Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current I_{peak}	8A (120V)	20A (277V)	Input Voltage120V/277V
Inrush current T_{width}	50us (120V)	40us (277V)	Input Voltage120V/277V, measured ta 50% I_{peak}

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	25pcs	52pcs	C10	25pcs	52pcs
B13	32pcs	68pcs	C13	32pcs	68pcs
B16	40pcs	84pcs	C16	40pcs	84pcs
B20	50pcs	105pcs	C20	50pcs	105pcs
			D16	40pcs	84pcs

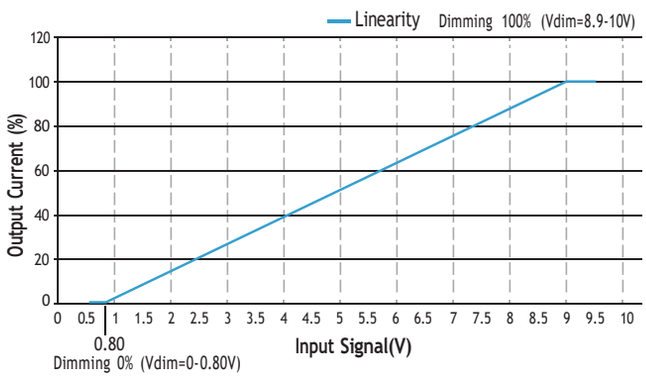
Current Selection Table

PUP40A-2WMC-850 is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

ON	OFF	1 2 3							
		500mA	550mA	600mA	650mA	700mA	750mA	800mA	850mA
		9-48V	9-48V	9-48V	9-48V	9-48V	9-48V	9-48V	9-47V

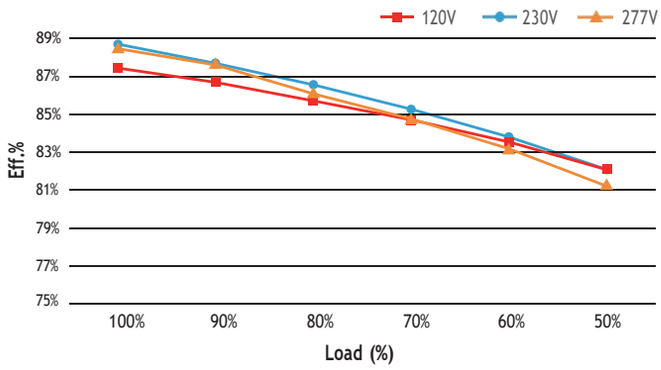
Remark: Function default setting is: 500mA (@switch are all OFF state)

0-10V Dimming Curve

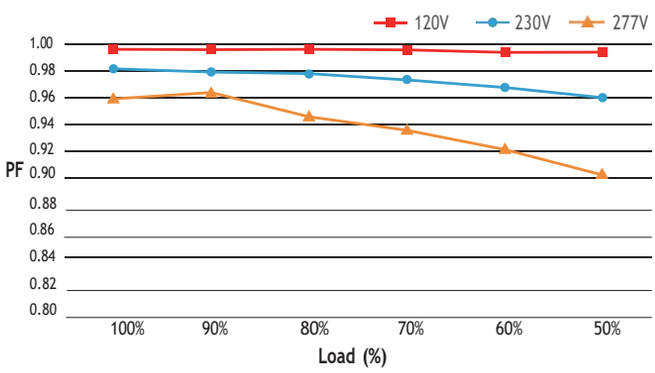


Note: Full brightness value and curve programmable

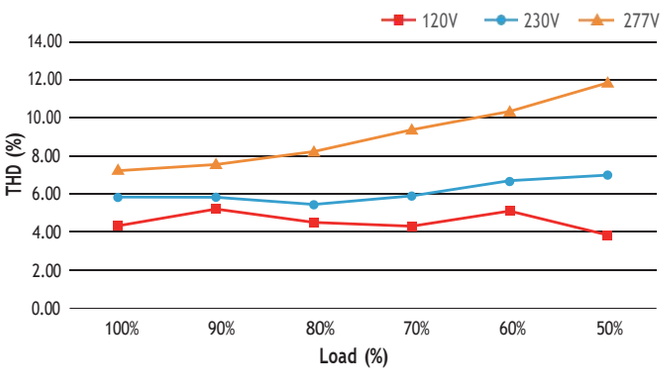
Efficiency vs Load Curve



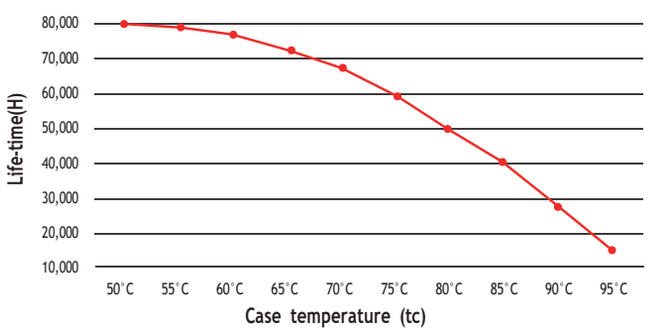
PF vs Load Curve



THD vs Load Curve

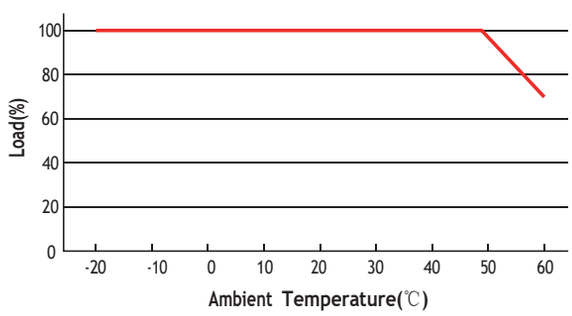


Life-time vs. case temperature



The life-time of the led driver is shown in the figure above
(calculated based on the 90% survival rate).
The relation of tc ta temperature depends also on the luminaire design.

Derating Curve



Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	· **Waterproof and Protection:** Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection. · **Heat dissipation requirements:** The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan.
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements
3	Safe wiring	· Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm^2 , (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements). · If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded.
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.
5	Repair suggestions	· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions,the function of the product shall prevail. Please contact us if you have any questions .

Warranty Agreement

1. Warranty periods from the date of delivery : 5 years.
2. Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

The following situations are not covered by the free warranty or replacement service:

1. Exceeding the warranty period.
2. Damage caused by human factors such as high voltage, overload, and improper operation.
3. The appearance of the product is severely damaged or deformed.
4. Normal wear and tear or aging during regular product use.
5. Damage caused by natural disasters or force majeure factors.
6. The quality inspection label of the product is damaged (QC PASS).
7. No contract or valid invoice proof signed with EUCHIPS has been provided.

※Remedies: Repair or replacement is the only remedy provided by EUCHIPS to the customer, and EUCHIPS shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.

※Adjustment of Warranty Terms: EUCHIPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.